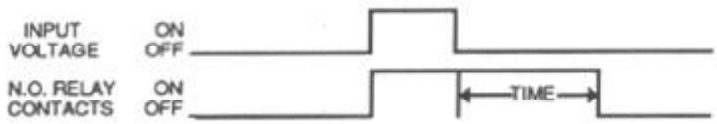
AMPERITE *Solving Your Timing Requirements Since 1922*

# DOD Series TDR

**Solid state analog circuitry**
**True delay on dropout: Timing cycle after power removal**
**DPDT (2 form C) isolated 4 ampere relay contacts**
**Timing selection: Knob adjustable or Fixed**
**Numerous models timing from 0.1 secs. to 300 secs.**
**UL File #E96739 (M)**
**CSA File #LR62586**

**Timing Mode:**
Upon the application of input voltage the relay immediately energizes. The timing cycle begins when input voltage is removed. When the timing cycle is complete, the relay will de-energize. The relay contacts will reset when input voltage is reapplied.

**Timing Diagram:**




**Contact Information:**
Arrangement: 2 form C (DPDT) - Diagram C
Contact Material: Gold Clad Silver Alloy
Rating (Resistive):
Maximum Switching Power - 1000 VA, 90W
Maximum Switching Voltage - 250V AC, 48V DC
Maximum Switching Current - 4 Amperes
Nominal Switching Capacity - 4A 250V AC, 3A 30V DC
UL/CSA Ratings - 4A 1/20 HP 125, 250V AC, 3A 30V DC
Expected Life @ 25°C:
100 Million operations, Mechanical
Electrical: 100,000 operations at 4A 250V AC
200,000 operations at 3A 30V DC

**Environmental Information:**
Temperature Range: Ambient: -40°C to +65°C (-40°F to +149°F)

**Mechanical Information:**
Termination: 8 pin Octal Style Plug or 11 pin spade terminals (Diagram C&D)
Enclosure: Black plastic case. Knob adjustable models have a dial scale for reference only.
Weight: 4 oz (114g) approx.

**Outline Dimensions** (Octal Syle):
Please contact us for information on 11-pin style

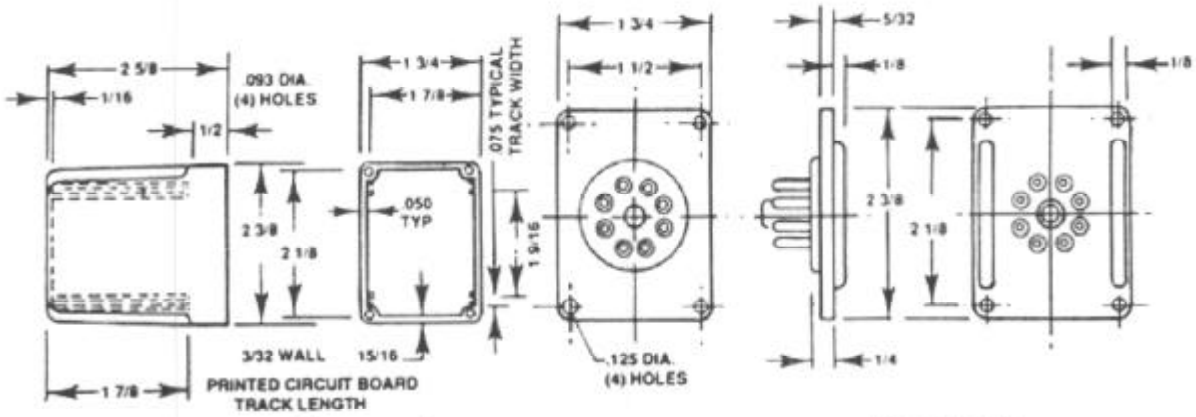



Diagram A Diagram B

**Timing Specifications:**
Timing - Fixed: 0.1 secs. through 300 secs.
Timing Ranges: Standard timing ranges are as follows:
.1 to 10 secs., .6 to 60 secs., 1.2 to 120 secs., 3 to 300 secs. **Custom timing is available.**
Timing Adjustment: Knob adjustable potentiometer.
Timing Tolerance: Fixed Units: ± 5%; Adjustable Units: -0 to +25% of maximum specified delay time.
Minimum specified value or less at low end.
Repeatability: ± 5%.

**Initial Dielectric Strength:**
Between open contacts: 750V RMS,
Between adjacent contacts: 1000V RMS,
Between contacts & coil: 1500V RMS

**Input Information:**
Voltage: AC units- 24V, and 120V; DC units- 24V, 48V and 110V. **Other voltages are available.**
Power Requirement: AC units: 2 VA or less; DC units: 2 Watts or less
Transient Protection: 1 JOULE MOV
Polarity Protection: On DC units - Yes

**Input Voltages & Limits:**

| Nominal | Minimum | Maximum |
|---|---|---|
| 24V AC | 20V | 28V |
| 120V AC | 105V | 130V |
| 24V DC | 20V | 32V |
| 48V DC | 41V | 55V |
| 110V DC | 95V | 125V |

**Wiring Diagrams:**

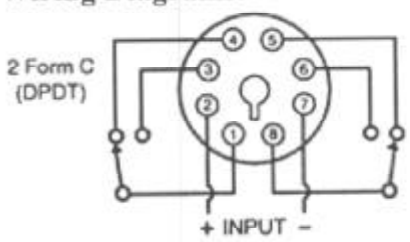



Diagram C

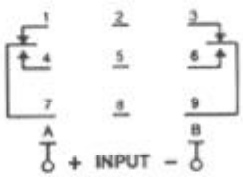



Diagram D

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**Ordering Information:**
Definition of a part number for the Amperite DOD Series Time Delay Relay.
Example:

| 120 | A | .6 | -60 | S | L | DOD |
|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G |

**A:** Denotes nominal input voltage. Voltages Available: 24 & 120V AC; 24, 48 & 110V DC. **Custom Voltages are available.**

**B:** Denotes type of input current required for operation:
A = AC - Alternating Current
D = DC - Direct Current

**C & D:** Denotes range of knob adjustability for timing (in seconds or minutes) where:
C = Minimum time delay. D = Maximum time delay for adjustable TDR'S.
Note: 1.) Ranges available: See standard timing ranges above. **Custom Timing is available.**
2.) Both values (C & D) can be replaced by a single value for a factory preset time delay in seconds or minutes from 0.1 secs. through 300 secs.

**E:** Denotes use of seconds or minutes in timing value(s), S = seconds, M = minutes.

**F:** Enter "L" if optional 11-pin spade terminals are required (Diagram D).
Please contact us for dimensional differences.

**G:** Denotes DPDT (2 form C) 4 amp delay on dropout DOD Series Time Delay Relay.

Product Selection Table - Main Menu
Overview of Amperite product line